

Partial English translation of JP-H07-73085

[0011]

On the other hand, a data processing system has so-called meta data, which has an important function. As described in Allen, et al; "The Integrated Dictionary/Directory System," ACM Computing Surveys, Vol. 14, No. 2, 1992, and the like, the meta data exists in the data processing system or represents attribute of an entity such as a user.

[0012]

The attribute of the data represented by the meta data includes an owner of data, a name of data, a type of data, location of data, and an access authorization of each user to data, and the like. "The Integrated Dictionary/Directory System," mentioned above describes a processing by using meta data for converting a data processing request issued by an application program into a procedure used in a data processing system, a processing by using meta data for checking whether the data processing request has authorization to process the data, and the like.

[0013]

The meta data as described above is always referenced during the processing of the processing request of the data processing system. Therefore, it is necessary to load the

meta data to a memory of a computer and process the meta data in the same manner as the data to be processed.

[0018]

A disk apparatus 12 stores a plurality of data files and a meta data file 18 including meta data of the respective data files.

[0020]

Further, the meta data file includes a plurality of records 184, and each of the records 184 includes an owner name 186 of the data file and various data groups 188 representing a file attribute, thereby representing the attribute of a single data file. Each block stores a plurality of records 184. For example, a record 142 representing the attribute of a data file a14 is in a block a, and a record 144 representing the attribute of a data file b16 is in a block c1826.

FIG. 1

142 RECORD REPRESENTING ATTRIBUTE OF DATA FILE a
102 MEMORY BLOCK a
104 MEMORY BLOCK b
142 RECORD REPRESENTING ATTRIBUTE OF DATA FILE a
144 RECORD REPRESENTING ATTRIBUTE OF DATA FILE b
10 MEMORY

100 REPRESENTATION OF ATTRIBUTE OF DATA FILE
14 DATA FILE a
18 DATA FILE b
18 META DATA FILE
182 BLOCK
184 RECORD
1822 BLOCK a
1824 BLOCK b
1822 BLOCK c
184 RECORD
186 OWNER NAME
188 FILE ATTRIBUTE
12 DISK